Clarion

SERVICE MANUAL

Closer Relations through "CLARION SERVICE MANUAL"

MODEL G-80C(GC-504E)

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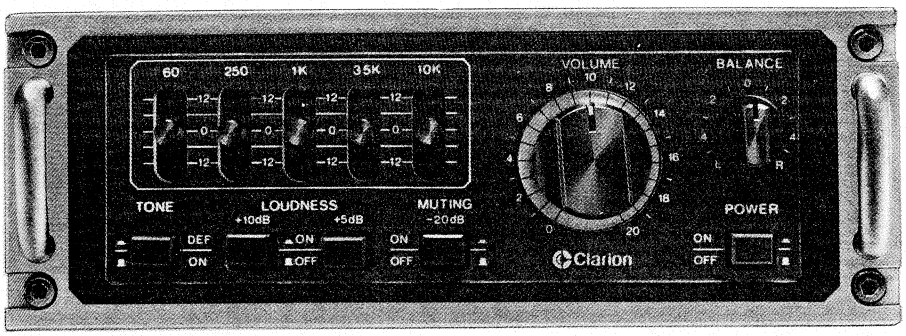


■SPECIFICATIONS:

Input level:	Deck, Tuner	More than 0.3V
Input impedance:	Deck, Tuner	10kΩ
S/N ratio:	Deck, Tuner	More than 60dB
Separation:	Deck, Tuner	More than 40dB
Tone adjustment range:		
		60Hz, 250Hz, 1kHz, 3.5kHz,
		10kHz More than ±9dB
Loudness 1 (volume at −30dB):		
		100Hz More than +3dB
		10kHz More than +2dB
Loudness 2:		100Hz More than +6dB
		10kHz More than +4dB
Muting:	Deck, Tuner	20dB±6
Power supply voltage:		
		DC 14.0V (10.8V to 15.6V)
		⊖ ground
Semiconductors:		15 transistors and 5 diodes

Dimensions:	Width	140mm
	Height	50mm
	Depth	100mm
Weight:	0.72kg	

■COMPONENTS:

GC-504E-01

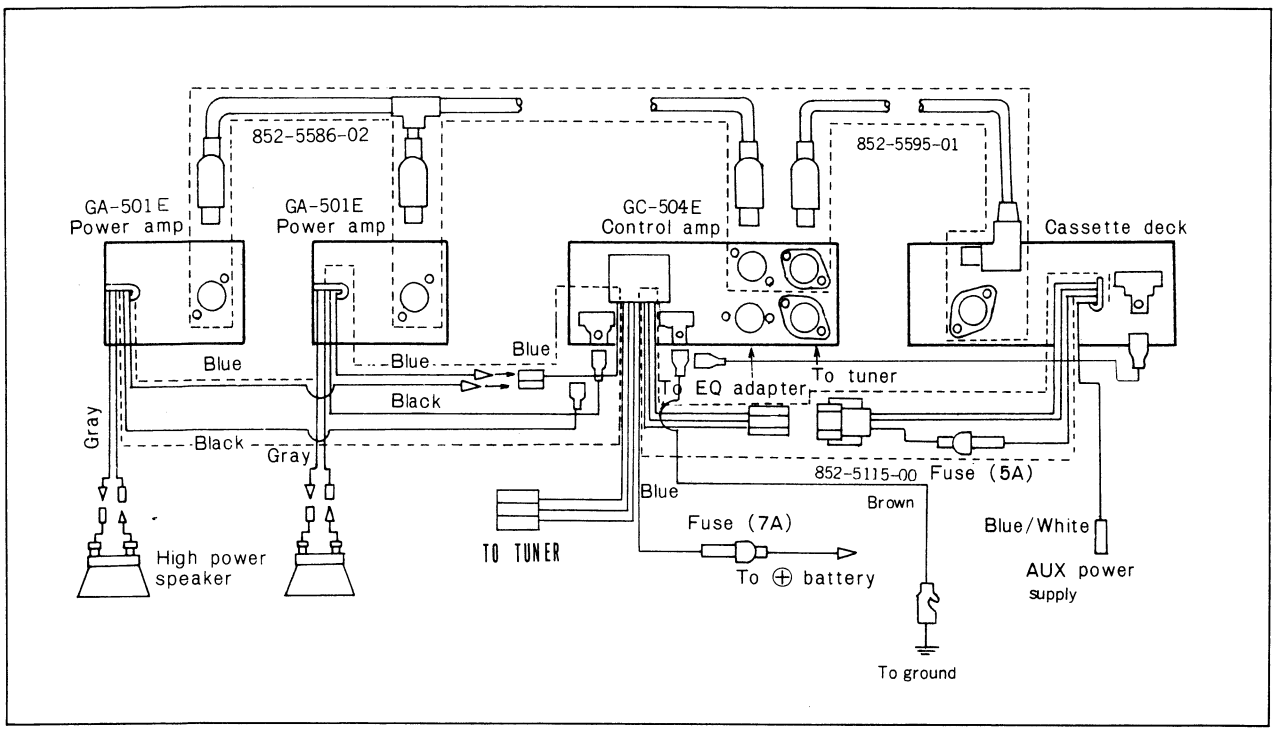
Main unit		1
Guide label	285-0899-00	1
Mounting bracket	300-4976-00	1
Mounting bracket	300-5074-00	1
Extension lead	852-5115-00	1
Extension lead	852-5586-02	1
Tap-screw	700-5016-10(M5x16)	3
Plate nut	725-0181-00(M5)	3
D-Sems-Hex-Bolt	734-5010-31(M5x10)	3
Flat washer	740-5000-10(M5)	3

Printed in Japan 298-2483-00 GC-504E

■FEATURES:

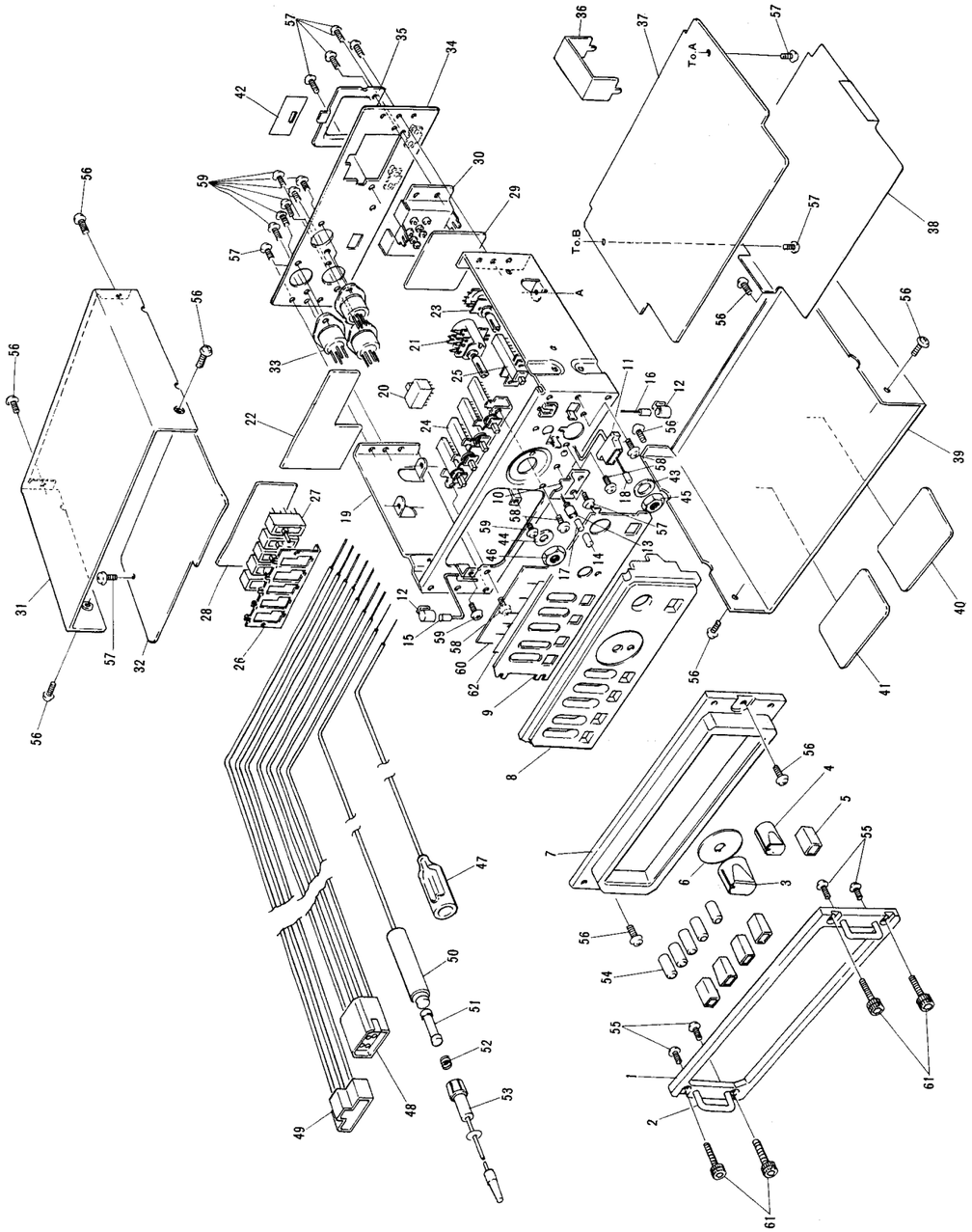
- A muting switch for lowering sound volume by one push is provided so that mixing of external sound and speech can be freely accomplished.
- A loudness control is employed for better bass and treble response even at low listening volumes.
- Deck priority power supply system is employed, power to control amplifier and power amplifier is supplied automatically by simply inserting pack into the deck.

■CONNECTION VIEW:



■EXPLODED VIEW:

◎Main section



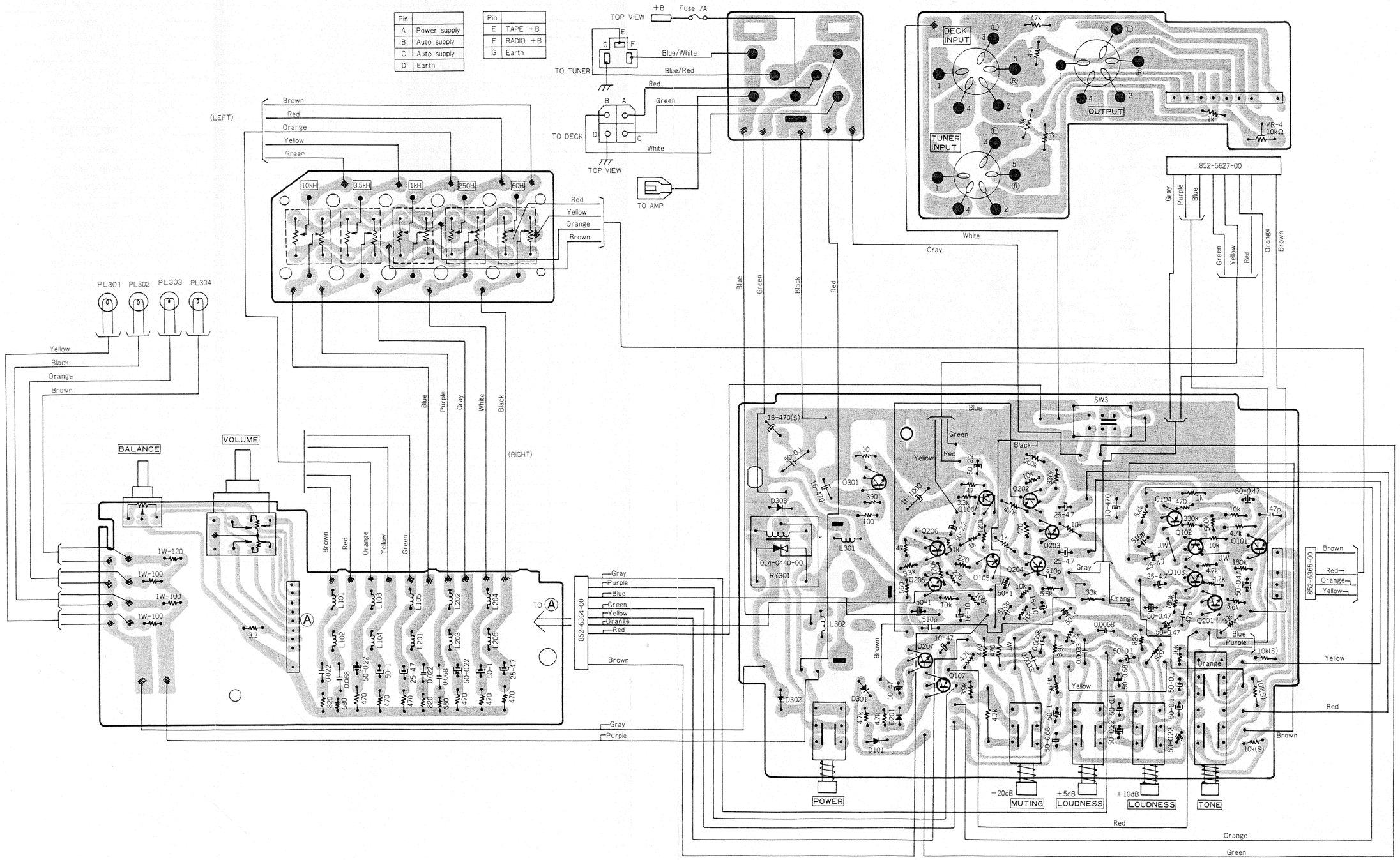
■PARTS LIST:

◎Main section

REF.NO.	PART NO. (ORDER NO.)	DESCRIPTION	Q'TY
1	370-3181-00	Escutcheon	1
2	341-1193-00	Handol	2
3	380-3858-02	Knob	1
4	380-3859-02	Knob	1
5	382-0153-01	Button	5
6	371-2806-00	Trim plate	1
7	370-3180-00	Escutcheon	1
8	309-0346-02	Front plate	1
9	374-0784-00	Back plate	1
10	330-6661-00	ES-bracket	1
11	345-3040-00	P.L holder	1
12	345-2947-01	P.L holder	2
13	345-2886-00	P.L holder	1
14	345-2830-03	P.L holder	1
15	017-0338-02	Pilot lamp	1
16	017-0338-05	Pilot lamp	1
17	017-0337-00	Pilot lamp	1
18	017-0314-17	Pilot lamp	1
19	308-0949-00	Front cover	1
20	013-3422-00	Switch	1
21	012-3684-01	Variable resistor	1
22	099-5199-01	P.W.B	1
23	012-3642-00	Variable resistor	1
24	013-3437-00	Switch	1
25	013-3398-00	Switch	1
26	330-7024-00	EQ-bracket	1
27	012-3806-00	Variable resistor	5
28	099-5764-00	P.W.B	1
29	099-5766-00	P.W.B	1
30	944-0500-05	Filter ass'y	1
31	310-0916-06	Upper case	1

REF.NO.	PART NO. (ORDER NO.)	DESCRIPTION	Q'TY
32	099-5765-00	P.W.B	1
33	074-0559-00	Outlet socket	3
34	307-0328-00	Rear cover	1
35	314-0385-00	Lead holder	1
36	330-7025-00	Shielded plate	1
37	099-5767-00	P.W.B	1
38	347-0734-01	Insulator	1
39	310-0916-00	Upper case	1
40	286-3678-00	Set plate	1
41	285-0656-00	Guide label	1
42	285-0900-00	Guide label	1
43	745-0485-00	Flat washer	1
44	745-0514-01	Flat washer	1
45	722-0282-00	Hexagon nut	1
46	722-0231-00	Hexagon nut	1
47	850-1986-00	A-lead	1
48	852-5913-00	Extension lead	1
49	852-6358-00	Extension lead	1
50	850-1938-01	A-lead	1
51	120-0070-03	Fuse	1
52	010-1610-01	Coil	1
53	850-1977-00	A-lead	1
54	380-3980-00	Knob	5
55	714-3006-10	Machine screw (M3x6)	4
56	731-3006-89	Tap tight (M3x6)	10
57	731-3006-80	Tap tight (M3x6)	9
58	714-3006-81	Machine screw (M3x6)	4
59	714-2604-81	Machine screw (M2.6x4)	8
60	353-0158-00	Shade	1
61	716-0333-00	Decoration screw	4
62	347-0905-00	Shade	1

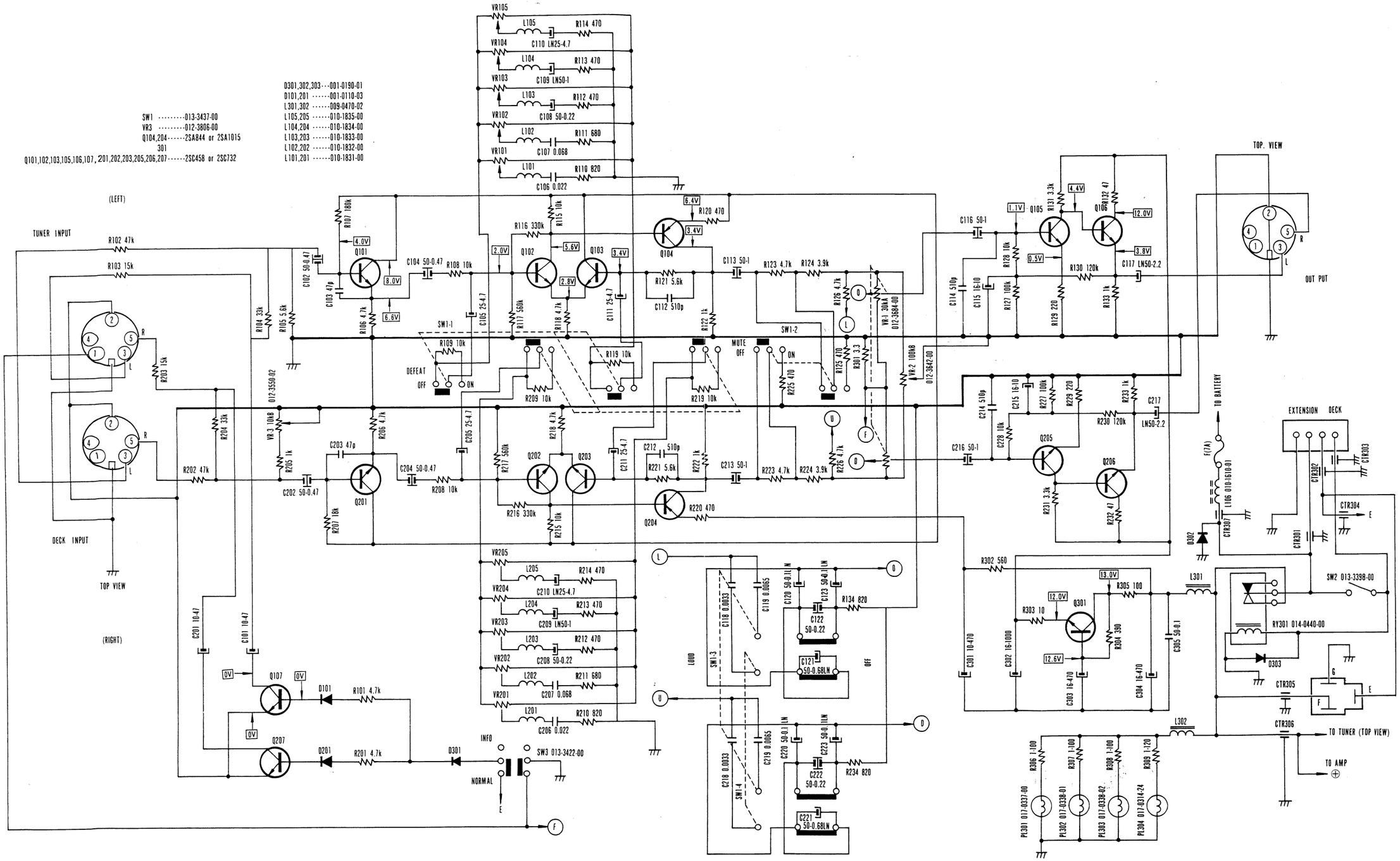
■PRINTED WIRING BOARD:



■CIRCUIT DIAGRAM:

SW1 ·····013-3437-00
VR3 ·····012-3806-00
Q104,204·····2SA844 or 2SA1015
301
Q101,102,103,105,106,107, 201,202,203,205,206,207·····2SC458 or 2SC732

D301,302,303···001-0190-01
D101,201 ·····001-0110-03
L301,302 ·····009-0470-02
L105,205 ·····010-1835-00
L104,204 ·····010-1834-00
L103,203 ·····010-1833-00
L102,202 ·····010-1832-00
L101,201 ·····010-1831-00



■PARTS LIST:

◎Electrical section

REF.NO.	PART NO. (ORDER NO.)	DESCRIPTION	Q'TY
$D_{101,201}$	001-0110-03	Diode (2S2473VE)	2
$D_{301,302,303}$	001-0190-01	Diode (10D4)	3
$L_{301,302}$	009-0470-02	Choke	2
L_{106}	010-1610-01	Coil	1
$L_{101,201}$	010-1831-00	Coil	2
$L_{102,202}$	010-1832-00	Coil	2
$L_{103,203}$	010-1833-00	Coil	2
$L_{104,204}$	010-1834-00	Coil	2
$L_{105,205}$	010-1835-00	Coil	2
VR_3	012-3550-02	Variable resistor	1
VR_2	012-3642-00	Variable resistor	1
VR_1	012-3684-00	Variable resistor	1
$VR_{101,102,103,104,105,201,202,203,204,205}$	012-3806-00	Variable resistor	5
RY_{301}	014-0440-00	Relay	1
$C_{108,122,208,222}$	042-0140-00	Electrolytic capacitor (50V0.22μF)	4
$C_{303,304}$	042-0173-01	Electrolytic capacitor (16V470μF)	1
C_{302}	042-0265-00	Electrolytic capacitor (16V1000μF)	1
$Q_{104,204}$	100-0844-04	Transistor (2SA844D)	2
$Q_{101,102,103,105,106,107,201,202,203,205,206,207,301}$	102-0458-02	Transistor (2SC458B)	13
R_{303}	111-1001-32	Film resistor (¼W10Ω)	1
R_{305}	111-1011-32	Film resistor (¼W100Ω)	1
R_{205}	111-1021-22	Film resistor (¼Ws1kΩ)	1
$R_{122,133,222,233}$	111-1021-32	Film resistor (¼W1kΩ)	4
$R_{109,119,209}$	111-1031-22	Film resistor (¼Ws10kΩ)	3
$R_{108,115,128,208,215,219,228}$	111-1031-32	Film resistor (¼W10kΩ)	7
$R_{127,227}$	111-1041-32	Film resistor (¼W100kΩ)	2
$R_{130,230}$	111-1241-32	Film resistor (¼W120kΩ)	2
$R_{103,203}$	111-1531-22	Film resistor (¼Ws15kΩ)	2
$R_{107,207}$	111-1841-32	Film resistor (¼W180kΩ)	2
$R_{129,229}$	111-2211-32	Film resistor (¼W220Ω)	2
$R_{131,231}$	111-3321-32	Film resistor (¼W3.3kΩ)	2
$R_{104,204}$	111-3331-32	Film resistor (¼W33kΩ)	2

REF.NO.	PART NO. (ORDER NO.)	DESCRIPTION	Q'TY
$R_{116,216}$	111-3341-32	Film resistor (¼W330kΩ)	2
R_{304}	111-3911-32	Film resistor (¼W390Ω)	1
$R_{124,224}$	111-3921-32	Film resistor (¼W3.9kΩ)	2
$R_{132,232}$	111-4701-32	Film resistor (¼W47Ω)	2
$R_{112,113,114,120,123,212,213,214,220,225}$	111-4711-32	Film resistor (¼W470Ω)	10
$R_{101,106,118,123,126,201,206,218,226}$	111-4721-32	Film resistor (¼W4.7kΩ)	9
R_{223}	111-4721-33	Film resistor (¼W4.7kΩ)	1
$R_{102,202}$	111-4731-32	Film resistor (¼Ws47kΩ)	2
R_{302}	111-5611-32	Film resistor (¼W560Ω)	1
$R_{105,121,221}$	111-5621-32	Film resistor (¼W5.6kΩ)	3
$R_{117,217}$	111-5641-32	Film resistor (¼W560kΩ)	2
$R_{111,211}$	111-6811-32	Film resistor (¼W680Ω)	2
$R_{110,134,210,234}$	111-8211-32	Film resistor (¼W820Ω)	4
$R_{306,307,308}$	114-1012-52	Film resistor (1W100Ω)	3
R_{309}	114-1211-52	Film resistor (1W120Ω)	1
C_{305}	141-1042-10	Polyester capacitor (50V0.1μF)	1
$C_{119,219}$	141-6522-10	Polyester capacitor (50V0.0065μF)	2
$C_{106,206}$	141-2232-10	Polyester capacitor (50V0.022μF)	2
$C_{112,114,212,214}$	141-5112-10	Polyester capacitor (50V510pF)	4
$C_{107,207}$	141-6832-10	Polyester capacitor (50V0.068μF)	2
$C_{118,218}$	141-3322-10	Polyester capacitor (50V0.0033μF)	2
$C_{103,203}$	150-4702-13	Ceramic capacitor (47pFCH)	2
$C_{113,116,213,216}$	180-1054-62	Electrolytic capacitor (50V1μF)	4
$C_{115,215}$	180-1064-32	Electrolytic capacitor (16V10μF)	2
$C_{102,104,202,204}$	180-4744-62	Electrolytic capacitor (50V0.47μF)	4
$C_{105,111,205,211}$	180-4753-42	Electrolytic capacitor (25V4.7μF)	4
$C_{101,201}$	180-4764-22	Electrolytic capacitor (10V47μF)	2
C_{301}	180-4774-22	Electrolytic capacitor (10V470μF)	1
$C_{120,123,220,223}$	181-1043-62	Electrolytic capacitor (50V0.1μFLN)	4
$C_{109,209}$	181-1053-62	Electrolytic capacitor (50V1μFLN)	2
$C_{117,217}$	181-2253-62	Electrolytic capacitor (50V2.2μFLN)	2
$C_{110,210}$	181-4753-42	Electrolytic capacitor (25V4.7μFLN)	2
$C_{121,221}$	181-6843-62	Electrolytic capacitor (50V0.68μFLN)	2